

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An electromagnetic noise suppressor having:
a magnetic resonance frequency of 8 GHz or higher; and
an imaginary part μ''_H of complex magnetic permeability at 8 GHz which is higher than an imaginary part μ''_L of complex magnetic permeability at 5 GHz,
wherein the electromagnetic noise suppressor includes a composite layer including a ~~complicated~~ heterogeneous structure where a binding agent and a magnetic material are integrated at the nanometer scale, wherein the composite layer includes a portion where a crystal lattice is observed to be made up of atoms of the magnetic material, a portion where only the binding agent is observed, and a portion where atoms of the magnetic material are observed to be dispersed in the binding agent without crystallizing, and the thickness of the composite layer is at least 0.005 μm and at most 0.3 μm ; and
the binding agent is at least one resin or rubber selected from the group consisting of polyolefine resin, polyamide resin, polyester resin, polyether resin, polyketone resin, ~~polyurethane resin, polysiloxane resin,~~ phenol resin, epoxy resin, acrylic resin, polyacrylate resin, natural rubber, isoprene rubber, butadiene rubber, styrene butadiene rubber, butyl rubber, and ethylene propylene rubber, ~~and urethane rubber.~~
2. (Canceled).
3. (Previously Presented) An electromagnetic noise suppressor according to claim 1, wherein the composite layer is formed by physically vapor-depositing the magnetic material onto the binding agent.
4. (Canceled).
5. (Original) An electromagnetic noise suppressor according to claim 3, wherein the binding agent is a resin or a rubber.

6. (Previously Presented) The electromagnetic noise suppressor according to claim 1, wherein the binding agent is a hardening resin.

7. (Original) The electromagnetic noise suppressor according to claim 3 wherein the binding agent is a hardening resin.

8. (Withdrawn) A method of manufacturing an electromagnetic noise suppressor, comprising:

physically vapor-depositing a magnetic material onto a binding agent to form a composite layer on the surface of the binding agent, thus obtaining an electromagnetic noise suppressor having a magnetic resonance frequency of 8 GHz or higher, and the imaginary part μ''_H of complex magnetic permeability at 8 GHz higher than the imaginary part μ''_L of complex magnetic permeability at 5 GHz.

9. (Withdrawn) A structure with an electromagnetic noise suppressing function, at least a part of which surface is covered with the electromagnetic noise suppressor of claim 1.

10. (Withdrawn) A structure with an electromagnetic noise suppressing function according to claim 9, wherein the structure is a printed wiring board having electronic components mounted thereon.

11. (Withdrawn) A structure with an electromagnetic noise suppressing function according to claim 9, wherein the structure is a semiconductor integrated circuit.

12. (Withdrawn) A method of manufacturing a structure with an electromagnetic noise suppressing function, comprising:

a coating process of coating at least a part of the surface of the structure with a binding agent; and

a vapor deposition process of physically vapor-depositing a magnetic material onto the binding agent to form a composite layer on the surface of the binding agent.

13. (Currently Amended) An electromagnetic noise suppressor having:
a magnetic resonance frequency of 8 GHz or higher; and
an imaginary part μ''_H of complex magnetic permeability at 8 GHz which is higher than
an imaginary part μ''_L of complex magnetic permeability at 5 GHz,
wherein the electromagnetic noise suppressor includes a composite layer including a
~~complicated~~ heterogeneous structure where a binding agent and a magnetic material are
integrated at the nanometer scale, wherein the composite layer includes a portion where a crystal
lattice is observed to be made up of atoms of the magnetic material, a portion where the binding
agent is observed without presence of the magnetic material, and a portion where atoms of the
magnetic material are observed to be dispersed in the binding agent without crystallizing, and the
thickness of the composite layer is at least 0.005 μm and at most 0.3 μm .

14. (Currently Amended) An electromagnetic noise suppressor having:
a magnetic resonance frequency of 8 GHz or higher; and
an imaginary part μ''_H of complex magnetic permeability at 8 GHz which is higher than
an imaginary part μ''_L of complex magnetic permeability at 5 GHz,
wherein the electromagnetic noise suppressor includes a composite layer including a
~~complicated~~ heterogeneous structure where a binding agent and a magnetic material are
integrated at the nanometer scale, wherein the composite layer includes a portion where a crystal
lattice is observed to be made up of atoms of the magnetic material, a portion where only the
binding agent is observed, and a portion where atoms of the magnetic material are observed to be
dispersed in the binding agent without crystallizing, atoms of the magnetic material being
separated by less than 10 nm, and the thickness of the composite layer is at least 0.005 μm and at
most 0.3 μm .